



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)

BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208

Miami, Florida 33175-2474

T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/pera

Curv-A-Tech Corporation

930 West 23rd Street

Hialeah, FL 33010

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Extruded Aluminum Tube Mullion – L.M.I.

APPROVAL DOCUMENT: Drawing No. **M95-19A**, titled "Aluminum Tube Mullions", sheets 1 through 5 of 5, dated 12/07/95, with revision D dated 04/12/12, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises and renews NOA# 08-0813.08** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



MP
7/24/12

NOA No. 12-0430.02

Expiration Date: March 28, 2018

Approval Date: August 02, 2012

Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **M95-19A**, titled "Aluminum Tube Mullions", sheets 1 through 5 of 5, dated 12/07/95, with revision D dated 04/12/12, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of aluminum fixed windows mulled together, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL 5636**, dated 06/12/08, signed and sealed by Carlos Rionda, P.E.
(Submitted under previous NOA# 08-0813.08)
2. Test report on: 1) Uniform Static Air Pressure Test, Loading per PA 202-94
along with installation diagram of aluminum fixed windows mulled together, prepared by Hurricane Engineering & Testing Inc., Test Report No. **HETI-96-1054**, dated 02/01/96 signed and sealed by Hector Medina, P.E.
(Submitted under previous NOA# 07-0424.13)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2004/2007, prepared by Al-Farooq Corporation, dated 07/22/08; updated to comply with FBC-2010 on 04/16/12, signed and sealed by Javad Ahmad, P.E.
(Partially submitted under previous NOA# 08-0813.08)

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

E. MATERIAL CERTIFICATIONS

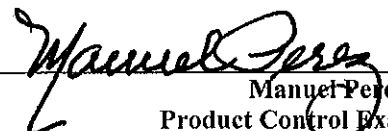
1. None.

F. STATEMENTS

1. Statement letter of conformance, complying with FBC-2010, and of no financial interest, dated April 16, 2012, signed and sealed by Javad Ahmad, P.E.

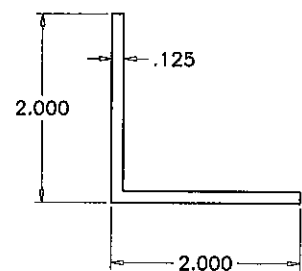
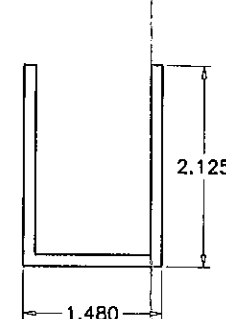
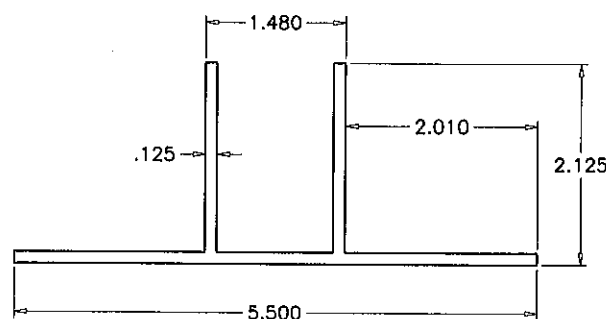
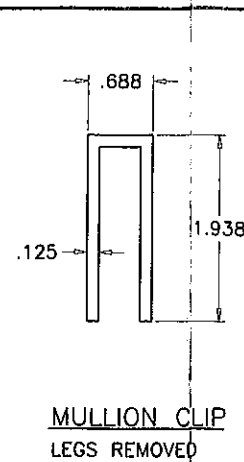
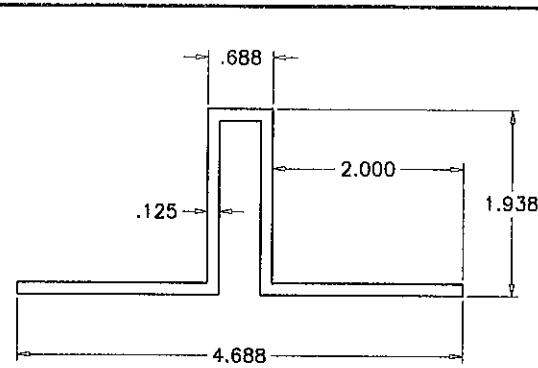
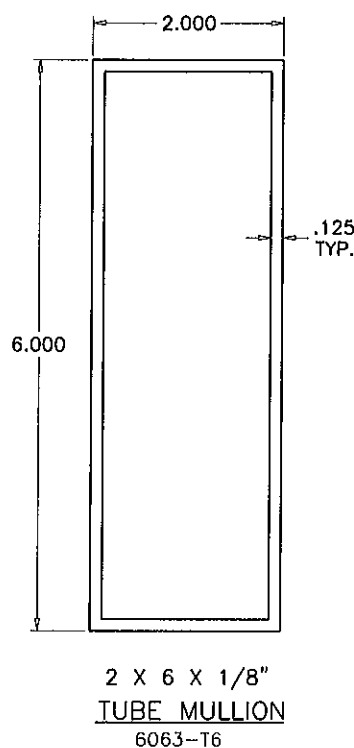
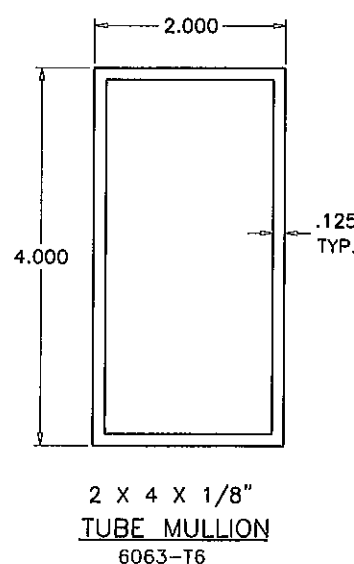
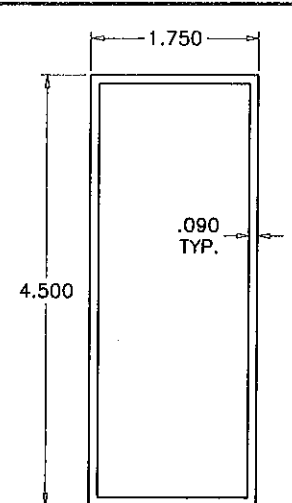
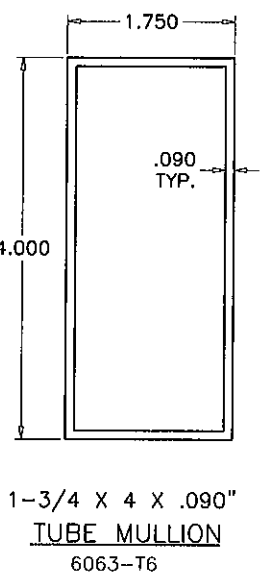
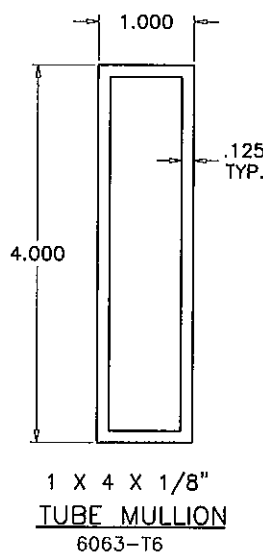
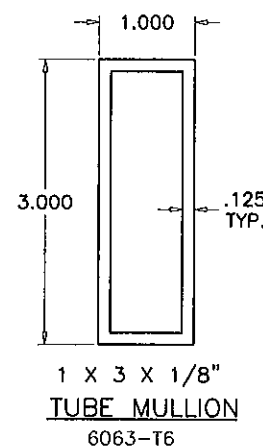
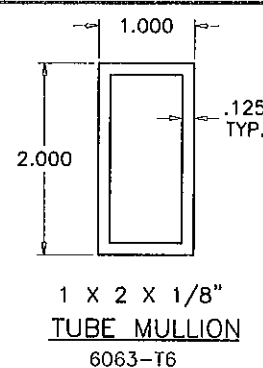
G. OTHER

1. Notice of Acceptance No. **08-0813.08**, issued to Curv-A-Tech Corporation for their "Aluminum Tube Mullion", approved on 10/02/08 and expiring on 03/28/13.



Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0430.02

Expiration Date: March 28, 2018
Approval Date: August 02, 2012



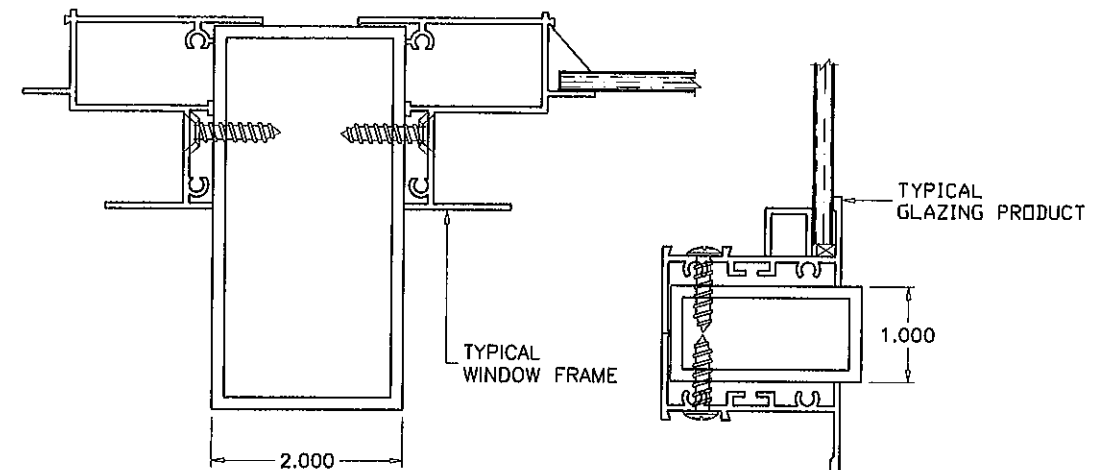
ANGLE CLIP (6063-T6)



INSTRUCTIONS:

USE CHARTS AND GRAPHS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN LOAD REQUIRED PER ASCE 7 FOR PARTICULAR OPENING.
- STEP 2** USE DADE COUNTY APPROVED GLAZING PRODUCTS MEETING ABOVE LOAD REQUIREMENTS.
- STEP 3** USE CONNECTION TO MULLION AS PER PRODUCT APPROVAL.
- STEP 4** USING GRAPHS ON SHEET 2 SELECT MULLION SIZE WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** USING ANCHOR TYPES ON SHEET 4, AND ANCHOR GRAPHS ON SHEET 3, SELECT ANCHOR TYPE WITH DESIGN RATING MORE THAN THE DESIGN LOADS SPECIFIED IN STEP 1 ABOVE.



MULLIONS CONTAINING TYPICAL GLAZING PRODUCTS HORIZONTAL OR VERTICAL

SEE WINDOW OR DOOR APPROVAL FOR FASTENERS SIZES AND SPACING

MULLION SYSTEM IS RATED FOR LARGE MISSILE IMPACT. AND CAN BE USED WITH ALL MIAMI-DADE COUNTY APPROVED IMPACT AND NON-IMPACT RESISTANT PRODUCTS.

RECTANGULAR ALUMINUM TUBE MULLIONS USING MULLION PROPERTIES ONLY

NOTES:

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

ALL GLAZING PRODUCTS USED WITH THESE MULLIONS MUST MEET THE APPLICABLE BUILDING CODE REQUIREMENTS I.E: WIND LOAD, WATER INFILTRATION, FORCED ENTRY RESISTANCE, SAFEGUARDS ETC.

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL COVERING (STUCCO, TILE ETC.).

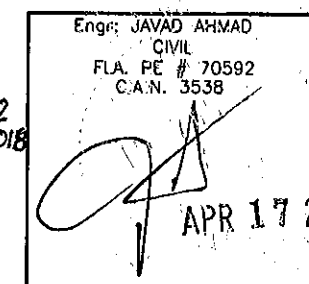
ANCHORING CONDITIONS OTHER THAN THOSE SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE SECTION 2003.8.4.

THIS NOA IS NOT VALID WITHOUT CORPORATE SEAL OF CURV-A-TECH CORPORATION AND A LABEL AFFIXED.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0430.02
Expiration Date March 28, 2018
By *Mauro Perez*
Miami Dade Product Control



afC

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

ALUMINUM TUBE MULLIONS

CURV-A-TECH CORPORATION
930 W. 23rd STREET
HALEAH, FL 33010
TEL. (305) 888-9631 FAX. (305) 888-9969

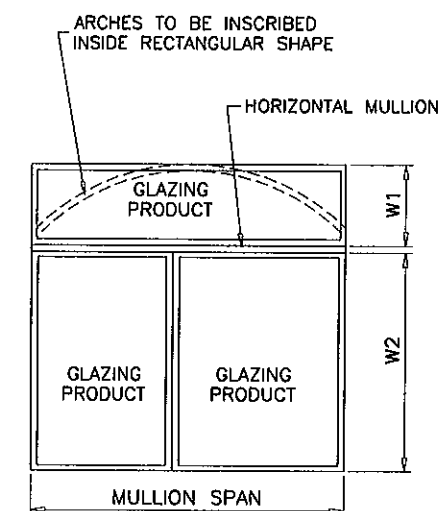
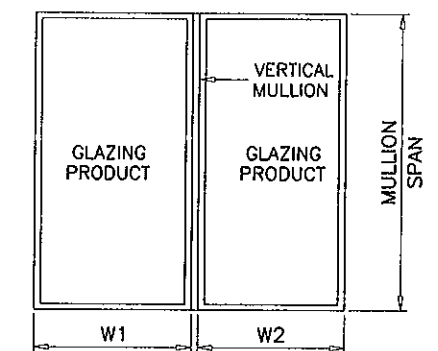
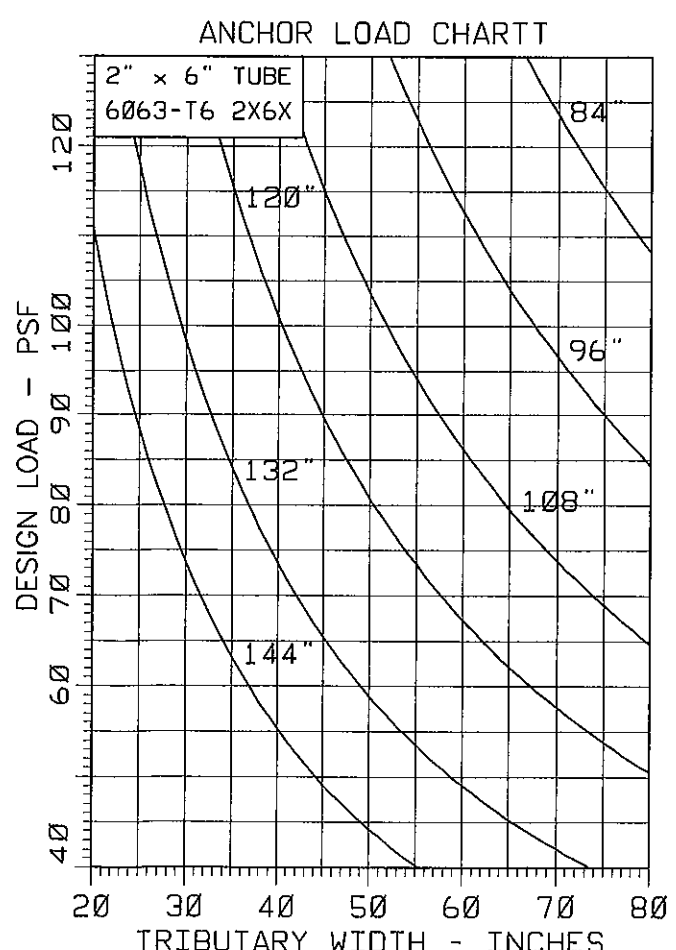
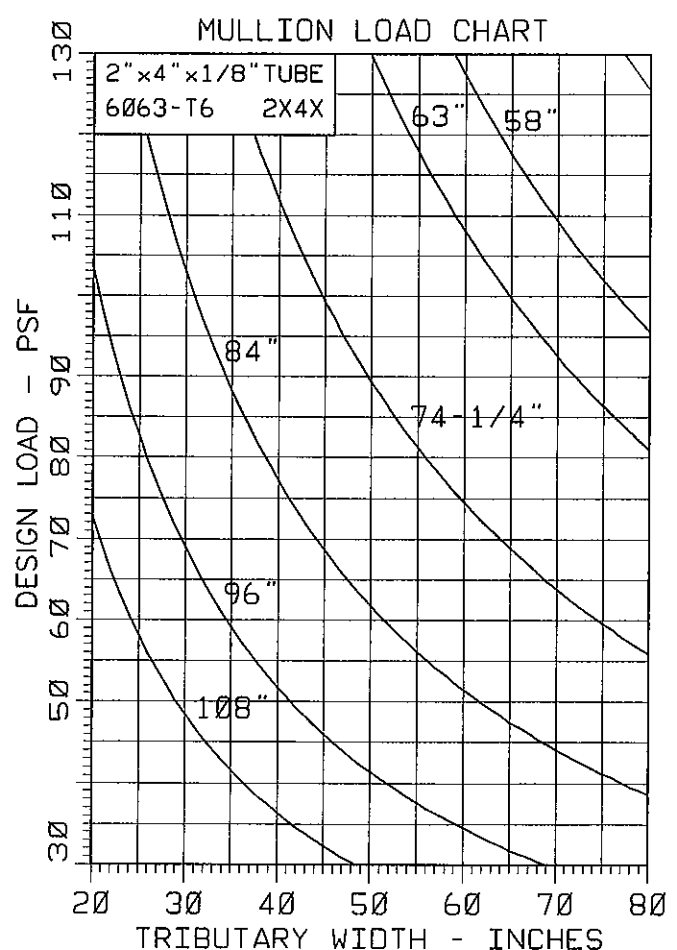
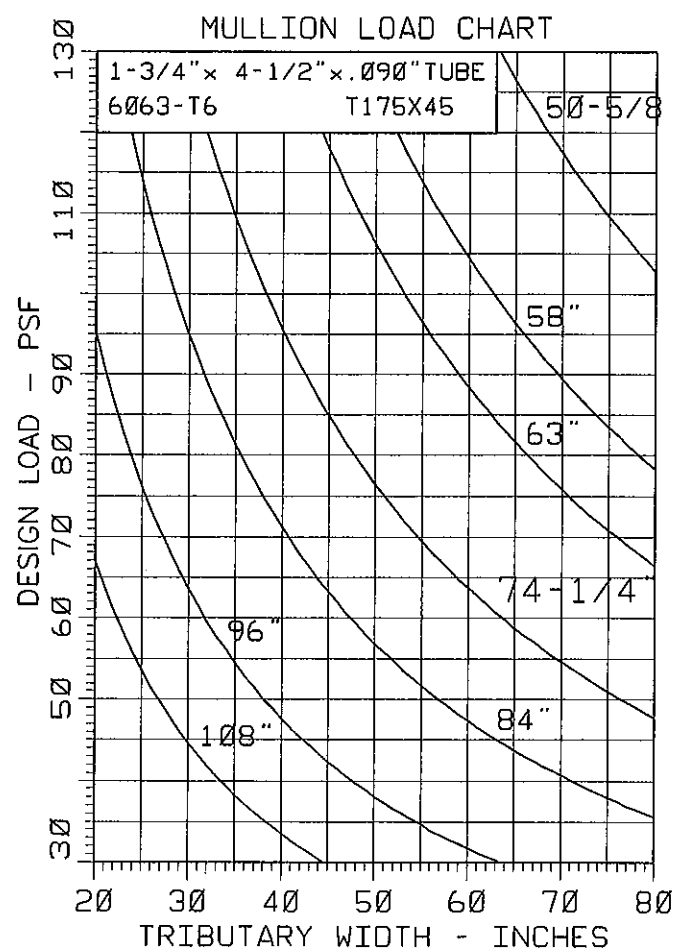
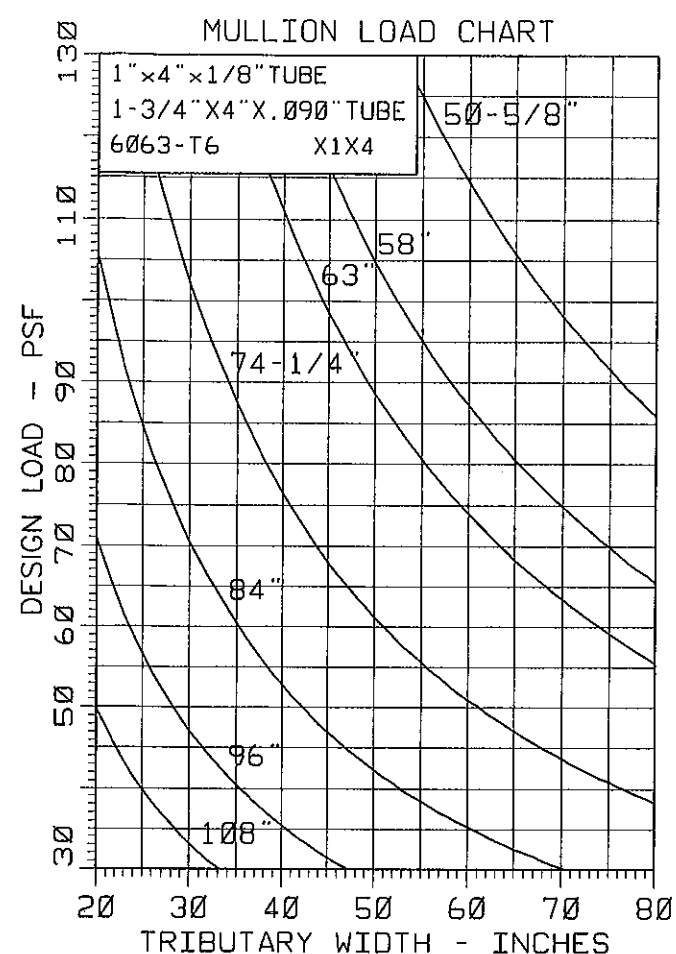
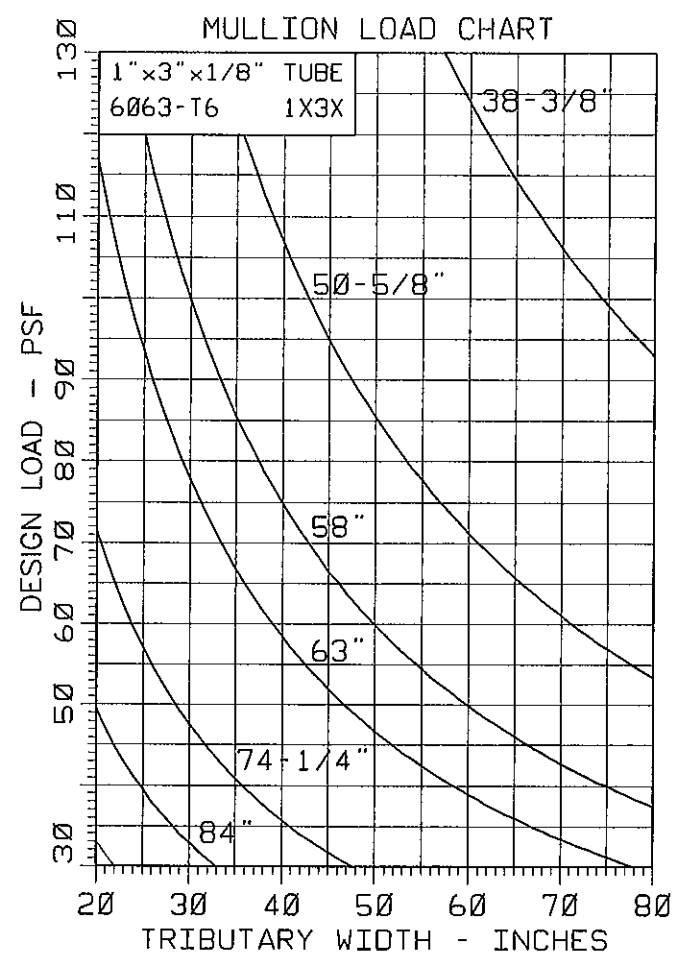
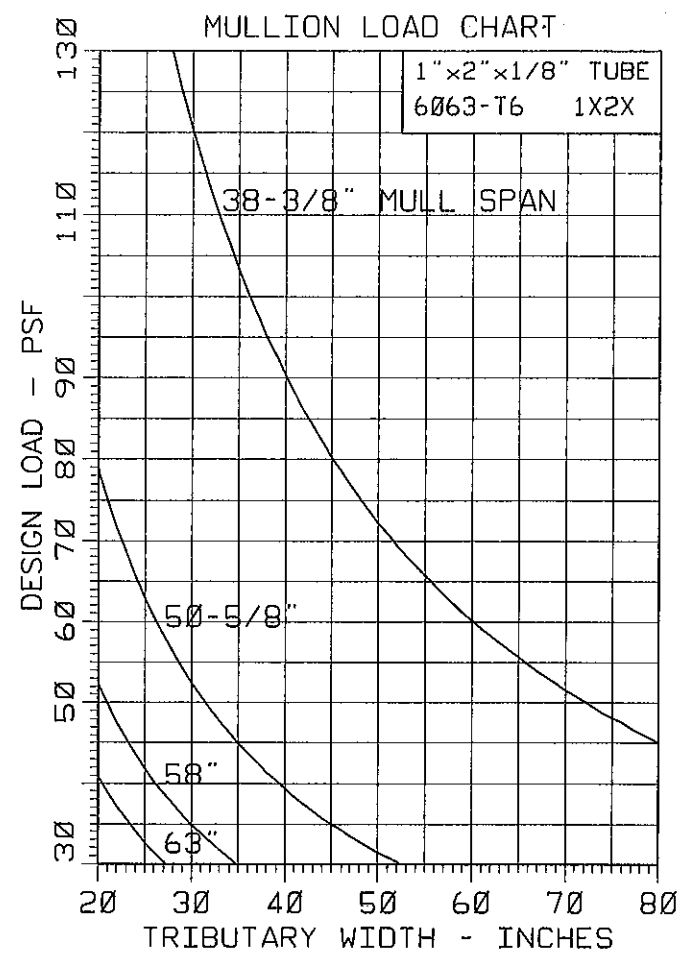
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	C	07.24.08		UPDATED FOR 2007 FBC
	D	04.12.12		UPDATED TO 2010 FBC

date: 12-07-95
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
M95-19A

sheet 1 of 5

MULLION M95-19A-CC



TYPICAL MULLION ARRANGEMENTS

$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

NOTE:
MULLIONS RATED IN THESE CHARTS MAY BE ORIENTED VERTICALLY OR HORIZONTALLY.
(INTERPOLATION BETWEEN WIDTHS ALLOWED)

Engr: JAVAD, AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

APR 17 2012

MULLIONS

PRODUCT REVISED
as complying with the Florida
Building Code
Amendment No. 12-0430.02
Effective Date March 22, 2018

By: *[Signature]*
Manufacture Product Control

a f c

AL-FAROOQ CORPORATION
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ALUMINUM TUBE MULLIONS

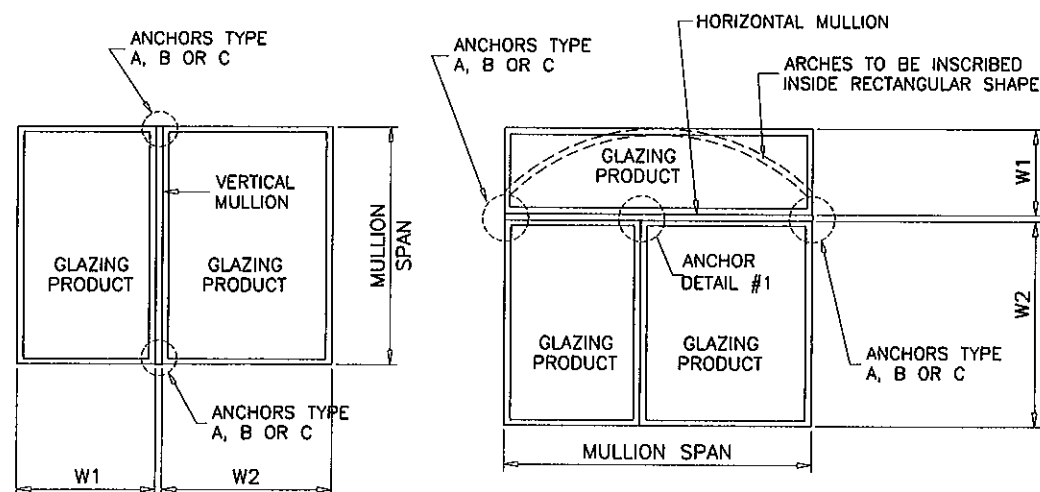
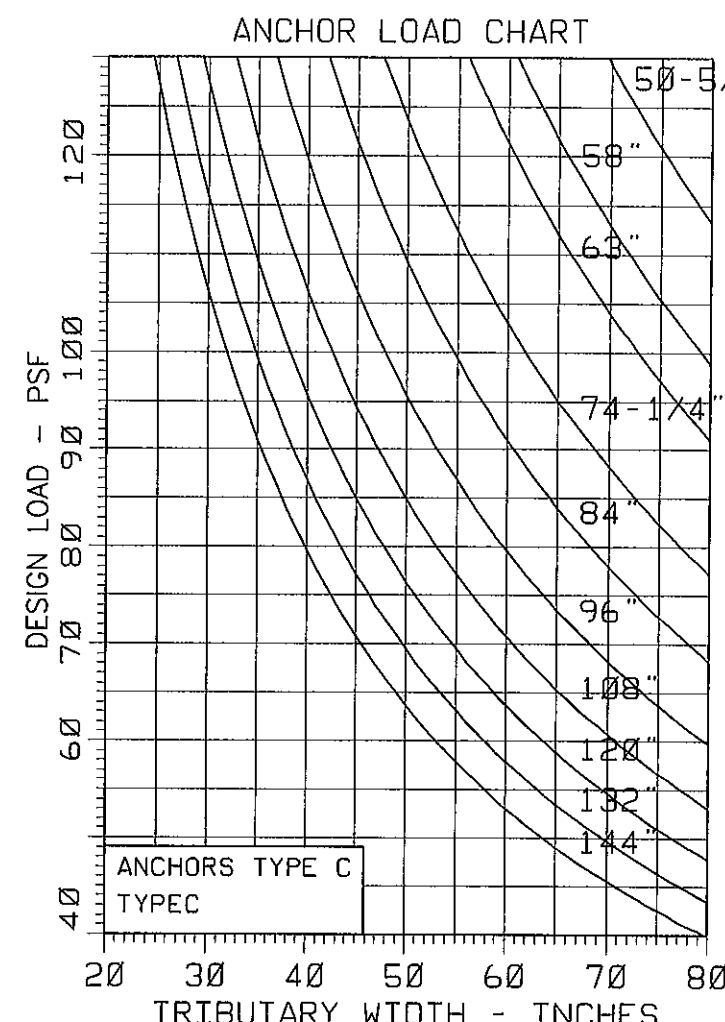
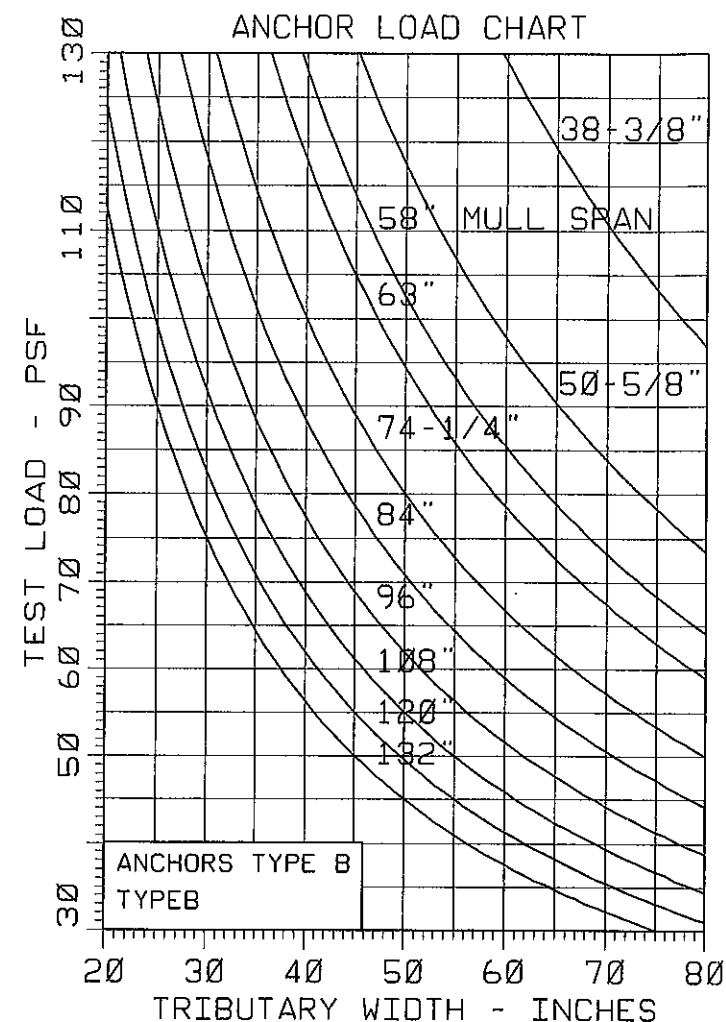
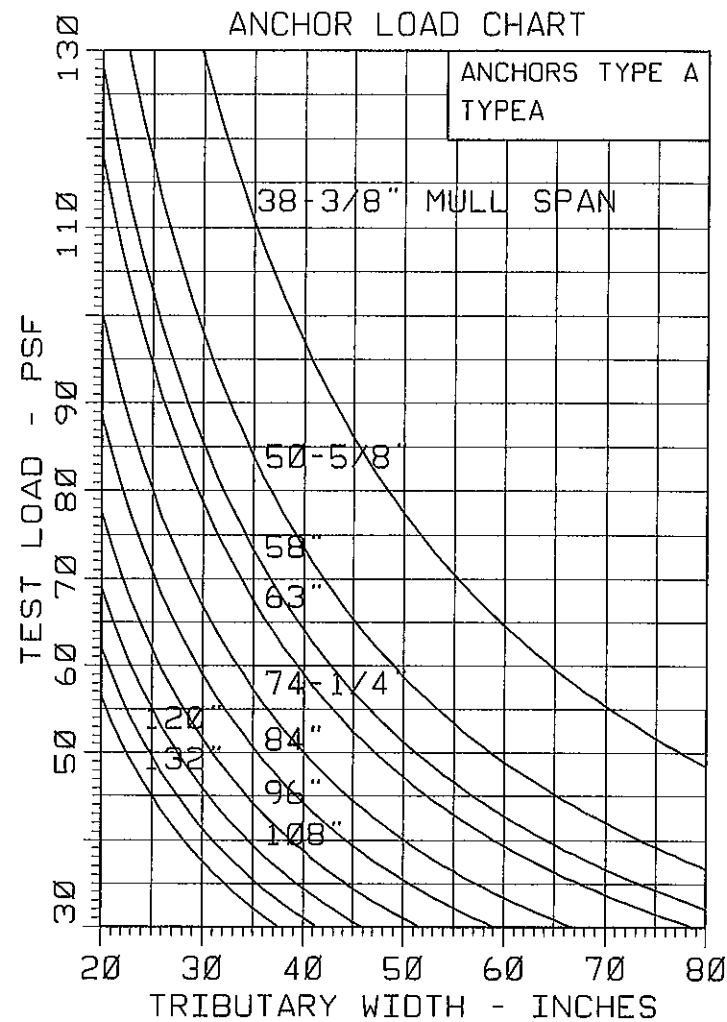
CURV-A-TECH CORPORATION
930 W. 23rd STREET
HIALEAH, FL 33010
TEL: (305) 888-9631 FAX: (305) 888-9969

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	C	07.24.08		UPDATED FOR 2007 FBC
	D	04.12.12		NO CHANGE THIS SHEET

date: 12-07-95
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
M95-19A

sheet 2 of 5



TYPICAL MULLION ARRANGEMENTS

$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

NOTE:

ANY ANCHOR CONDITION SHOWN HEREIN MAY COVER LOCATIONS AT HEAD, SILL OR JAMB ENDS.

FOR ANCHORS DESCRIPTION SEE SHEET 4.

(INTERPOLATION BETWEEN WIDTHS OR SPANS ALLOWED)

Eng: JAYAD AHMAD
CIVIL
FLA. PE # 70592
CAN. 3538
APR 17 2012

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0430-02
Expiration Date March 25, 2018
By: *Manuel Perez*
Miami Dade Product Control

ANCHORS

afC
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
MULLION M95-19A-CC

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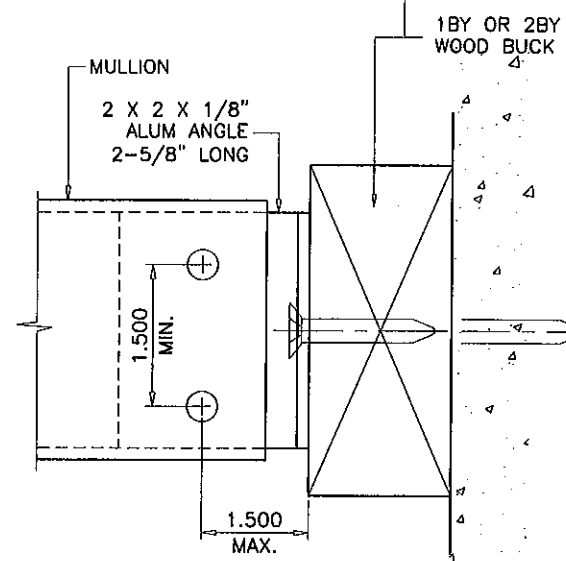
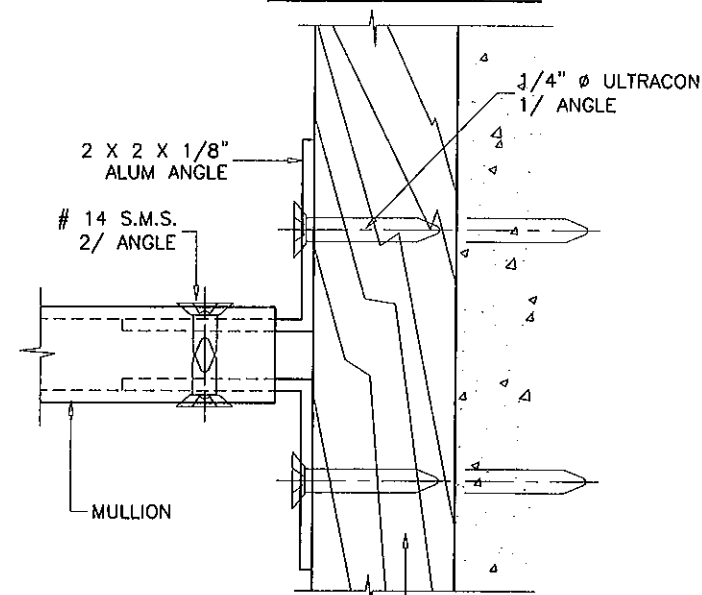
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date: 12-07-95
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

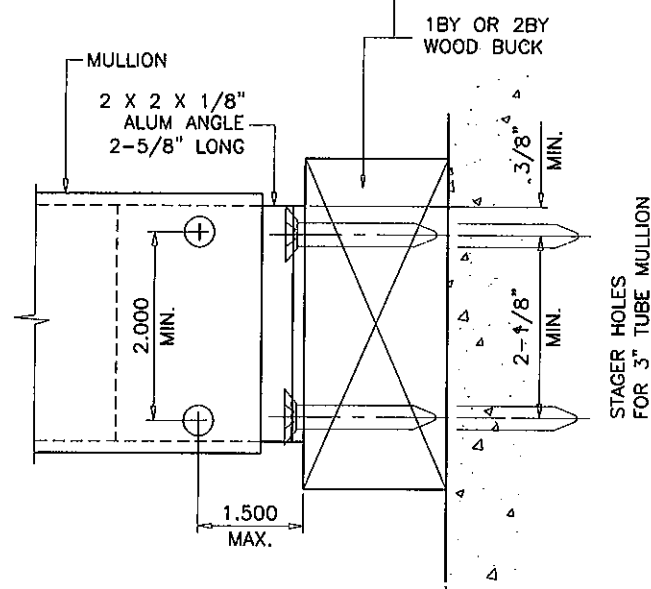
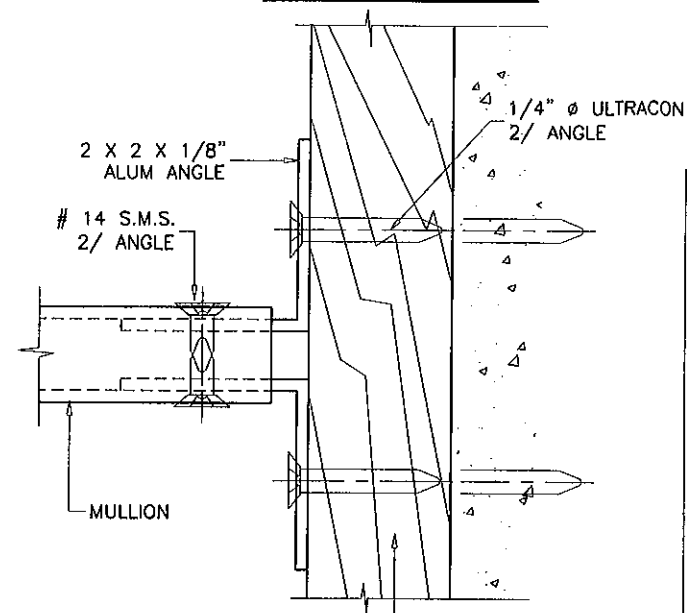
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M95-19A

sheet 3 of 5

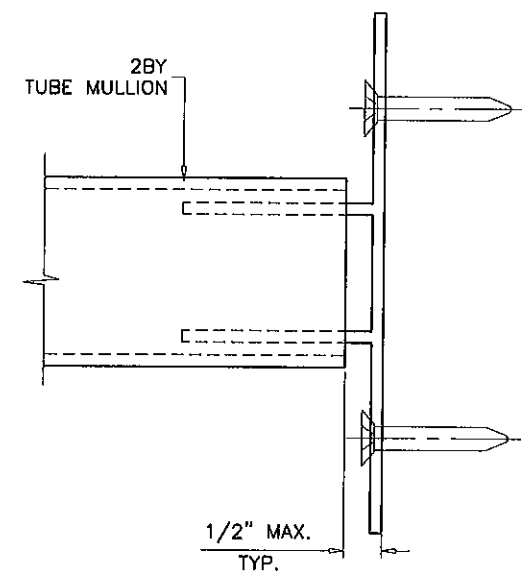
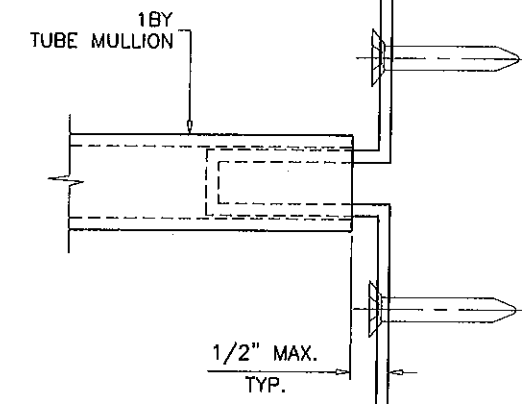
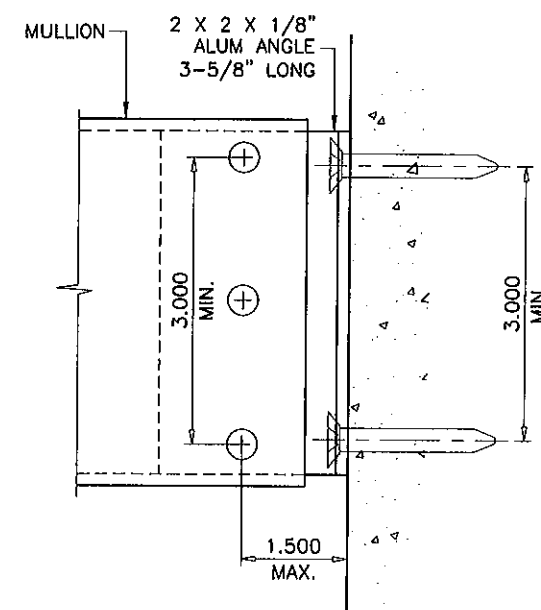
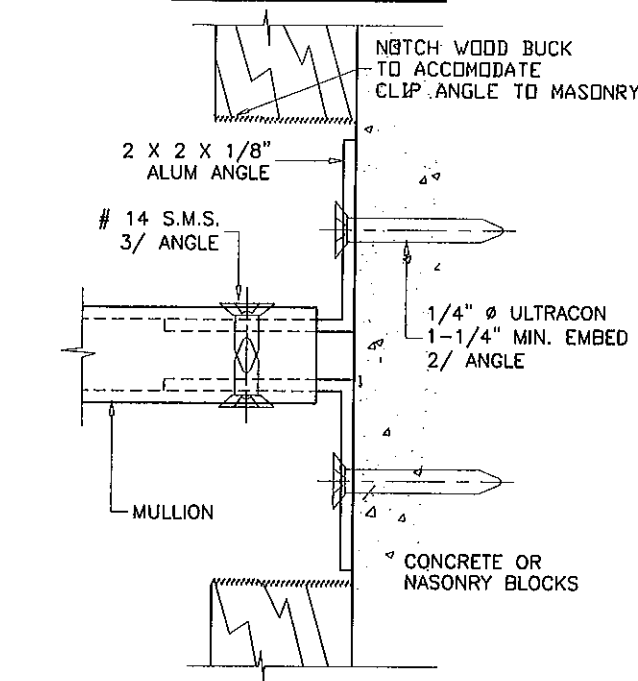
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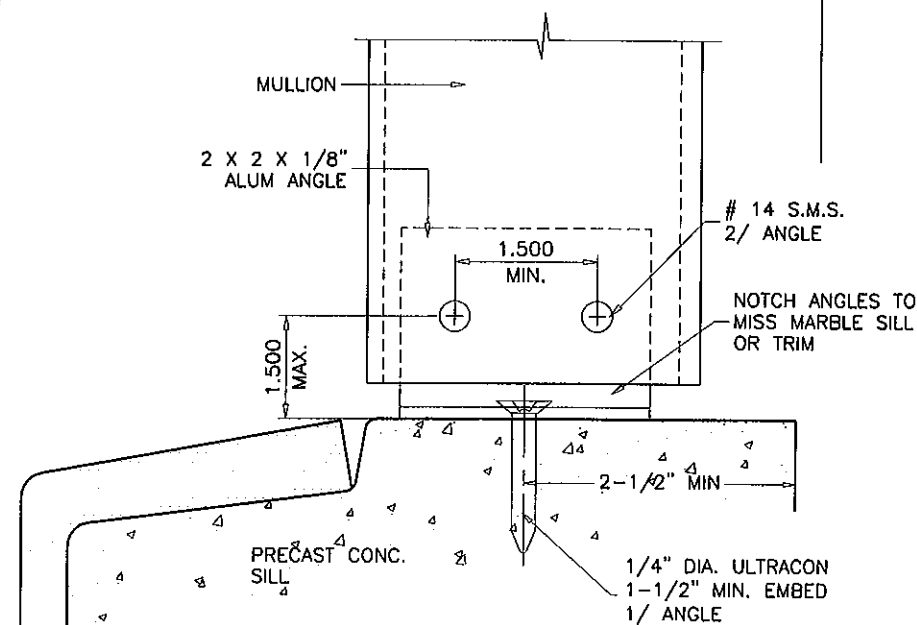
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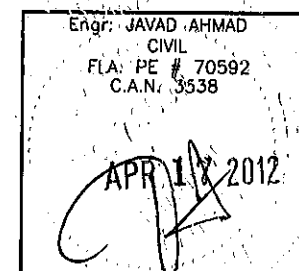


FLOATING MULLION CLIPS
ALTERNATE TO ANGLES ALL CASES
CLIPS TO FIT SNUG INTO TUBE MULLIONS



ULTRACON BY 'ELCO' ($F_u=177$ KSI, $F_y=155$ KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY
DIRECTLY INTO MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY
ANCHOR EDGE DISTANCES:
INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 5/8" MIN.

WOOD BUCKS NOT BY CURVATECH
MUST SUSTAIN LOADS IMPOSED.



PRODUCT REVISED
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Acceptance No 12-0430.02
Expiration Date March 28, 2018
By *Manuel Perez*
Miami Dade Product Control

afC

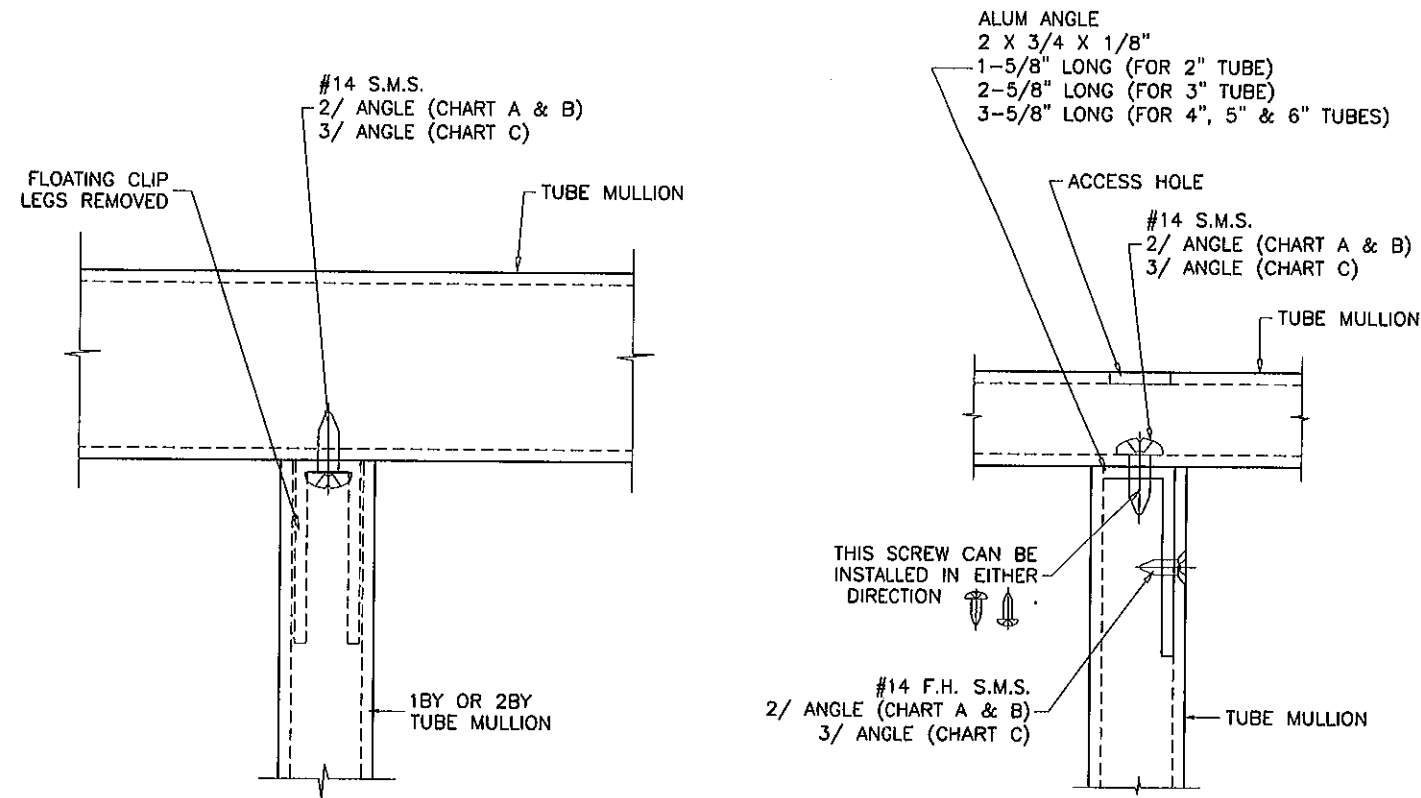
AL-FAROOQ CORPORATION
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MULLION M95-19A-CC

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scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
M95-19A
sheet 4 of 5



ANCHORS DETAIL #1
METAL TO METAL CONNECTION

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

APR 17 2012

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0430.02
Expiration Date MARCH 28, 2018

By *Muhammad Buz*
Miami/Dade Product Control

afc

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drawing no.
M95-19A

sheet 5 of 5

MULLION M95-19A-CC